

WELCOME

OCTOBER 2016

PAINTEARTH WIND PROJECT | PUBLIC OPEN HOUSE PLEASE SIGN IN AND WALK AROUND WE ARE HERE TO ASSIST YOU

the Paintearth Wind Project or PWLP please visit our web site or contact a representative by telephone or email

Dan Tocher
Stakeholder Relations Manager
Email: info@paintearthwind.com
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www.paintearthwind.com

PAINTEARTH WIND PROJECT LP, BY ITS GENERAL PARTNER PAINTEARTH WIND PROJECT LTD. (PWLP)



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ABOUT US

Greengate Power Corporation is a leading renewable energy company based in Calgary, Alberta. To date, Greengate has successfully developed 450 MW of operating wind projects in Alberta. These projects represent over 30% of the wind energy generated in Alberta and provide a clean source of energy to approximately 200,000 homes.



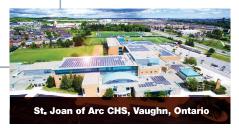


www.paintearthwind.com

Potentia Renewables Inc. is an independent power producer focused on developing, managing and operating renewable energy systems. Potentia Renewables Inc. is a wholly owned subsidiary of Power Corporation of Canada, a diversified international management and holding company.







150 MW Halkirk Wind Project

300 MW Blackspring Ridge Wind Project



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PROJECT INFORMATION

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PROJECT OWNER

Paintearth Wind Project LP, by its general partner Paintearth Wind Project Ltd. (PWLP)

PROJECT NAME

Paintearth Wind Project

HOST MUNICIPALITIES

· County of Paintearth

PROJECT TYPE AND SIZE

• Approximately 150 MW wind energy project

COLLECTION SYSTEM

• 34.5 kilovolt (kV) above ground and underground collector lines that connect into the proposed Lanes Lake substation



INTERCONNECTION

PROJECT SUBSTATION

 Lanes Lake Substation is proposed to be located in SW 14-37-15 W4M

POINT OF INTERCONNECTION

- 240 kilovolt (kV) power line built from the proposed Lanes Lake substation to the existing ATCO Electric 9L93 line north of the Project
- Interconnection covered under a separate consultation and application process conducted by ATCO Electric

OTHER INFRASTRUCTURE

ROADS

- Approximately 6 metres wide
- · Built with existing material to build the crown of the road
- Top dressed with crush gravel

OPERATIONS AND MAINTENANCE BUILDING

• Approximate location beside Project Substation

TEMPORARY LAY DOWN AREA

Location to be determined



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PROJECT DETAILS

Number of Wind Turbines Proposed: Up to 55

Total Installed Capacity: Up to 150 MW **Anticipated In Service Date:** Q2 2019

Project Duration: 25+ years

Rotor Diameter: Up to 140 metres

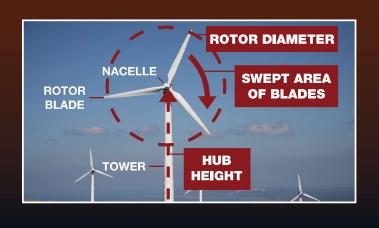
Wind Turbine Capacity: Up to 3.6 MW

Hub Height: Up to 110m

Blade Length: Up to 70 metres

Acres Within Project Boundary: Approximately 20,000

Footprint: Approximately 1 – 2 acres per turbine







COMMUNITY BENEFITS



CLEAN ENERGY

Wind energy is one of the cleanest forms of electrical power generation. It uses no water, and produces no emissions. It is a clean, renewable source of energy.



COST EFFECTIVE

Wind energy is the most cost effective renewable energy source available and can coexist with farms, ranches and other uses.

COMMUNITY FUND AND INVOLVEMENT

- We are setting up a community development fund for the Project
- We will provide a funding commitment throughout the Project life, and will support local initiatives and projects
- More details on the fund will be shared as the Project progresses
- This is in addition to the municipal tax revenues generated by the Project
- We are also interested in supporting local events and activities in the community

Please let us know if there are ways that we can support local initiatives and the community

DURING CONSTRUCTION

- Local spending
- Construction jobs
- Employment and contract opportunities
- Increased accommodation and meals in the area
- Compensation to participating landowners

DURING OPERATION

- Local spending
- Operator and maintenance employment and contracting opportunities
- Municipal tax revenues directly allocated to increasing local services or stabilizing local tax rates
- Compensation to participating landowners boost for rural economic development



If you are interested in providing goods and services to the Project, please provide your contact information on the contractor list at the sign in table.



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CONSULTATION SCHEDULE



PERSONAL CONSULTATION
OPEN HOUSE

ONGOING ENGAGEMENT AND UPDATES

CONSTRUCTION PHASE 2018 - 2019

ONGOING ENGAGEMENT AND UPDATES

OPERATIONS PHASE 2019 - 2044+

ONGOING ENGAGEMENT AND UPDATES

DECOMMISSIONING AFTER 2044

CONSULTATION WITH STAKEHOLDERS ON DECOMMISSIONING/ RECLAMATION/ REPOWERING

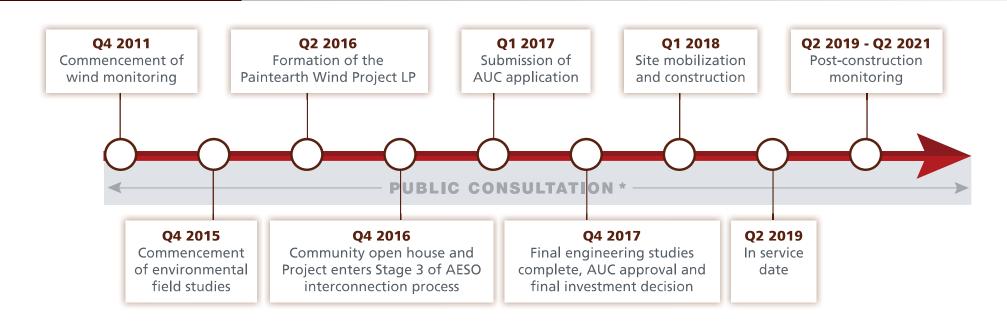


We are committed to engaging landowners, public stakeholders, and other members of the local community and we look forward to a continuing dialogue and partnership with you over the coming months and years



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EXPECTED PROJECT SCHEDULE



* Public consultation will continue through the life of the project, from development, through construction, operations and decommissioning

NOTE

This schedule is subject to change. Project timing is dependent on regulatory approvals, and results of the Government of Alberta's Renewable Electricity Program (www.aeso.ca/rep)

We will continue to provide schedule updates as the Project progresses





STAKEHOLDER CONSIDERATIONS



CONSTRUCTION

DUST

 We will work with the County to ensure dust mitigation is in place and impact is kept to a minimum

INCREASED TRAFFIC

- Main access is through highway 12 and highway 36
- We will work with the County to reduce impacts on the community from traffic



OPERATION

NOISE

See poster

SHADOW FLICKER

See poster

VISUAL IMPACT

• See poster

WILDLIFE IMPACTS

- Setbacks used to reduce risk
- Post-construction monitoring plan

TURBINE LIGHTING

- Required for air transportation safety
- Transport Canada regulated

ICE THROW

 Setbacks and operational protocols used to reduce risk



REGIONAL MAP

Project Boundary

Proposed Project Substation and Proposed O&M Building

Existing Substation

Existing 9L93 Transmission Line (240 kV)

--- Primary Highway

— Secondary Highway

---- Railway

City, Town or Village

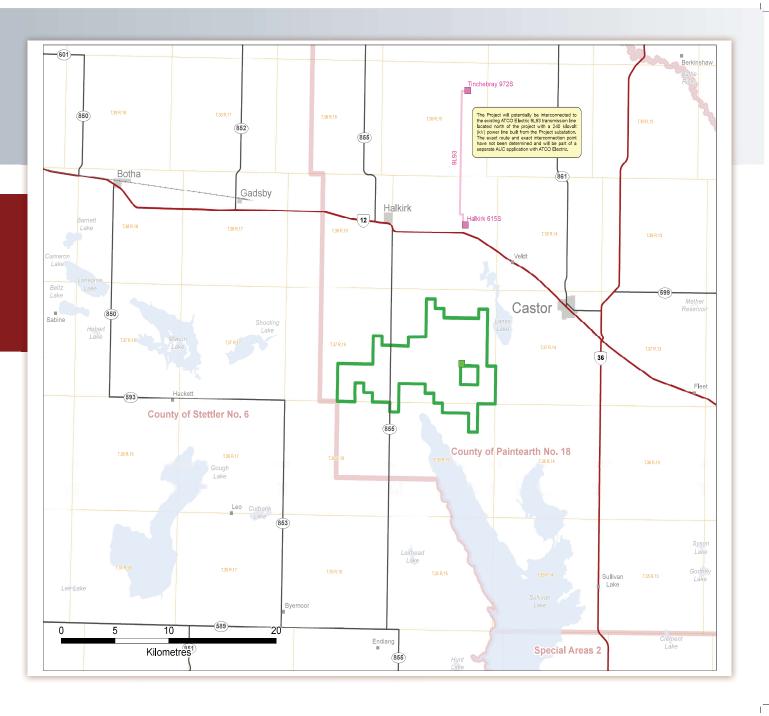
Major Waterbody

Municipal District or County Boundary

Provincial Boundary

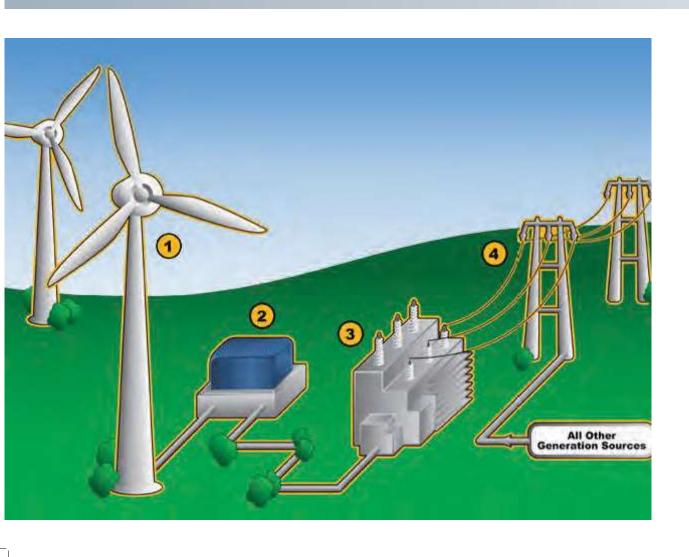
Township







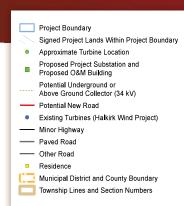
HOW WIND POWER WORKS



- Wind is produced by the uneven heating of the earth's surface by the sun. The wind causes the turbine blades to spin.
 The spinning blades cause a generator to rotate, converting the wind energy into electricity.
- The transformer increases voltage for transmission to substation.
- The substation further increases voltage for transmission over long distances.
- 4 Electricity generated travels through transmission lines and distribution lines to homes and businesses.



PROPOSED PROJECT MAP

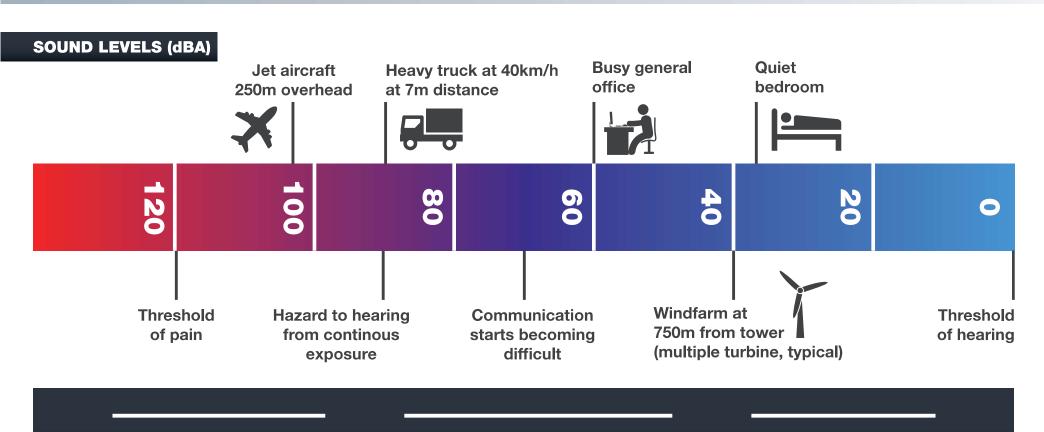




T.38 T.37 Kilometres T.36 **R.16** R.15 W4M **R.14**



WIND TURBINES AND SOUND



Under windy conditions, turbine noise can be difficult to hear because of the wind. You can carry on a normal conversation while standing at the base of an operational wind turbine.

Modern wind turbines have been engineered to have low sound.



55 TURBINE PRELIMINARY SOUND MAP

- Cumulative Sound Level: 45 dBA
 Cumulative Sound Level: 40 dBA
 (AUC Compliance Limit for Design)
- Energy-related Sound Source
- Project Boundary
- Approximate Turbine Location
- Proposed Project Substation and Proposed O&M Building
- Existing Turbines (Halkirk Wind Project)
- Minor Highway
- --- Paved Road
- --- Other Road
- Residence
- Oil and Gas Facility
- Oil and Gas Active Well
- Municipal District and County Boundary
- Township Lines and Section Numbers



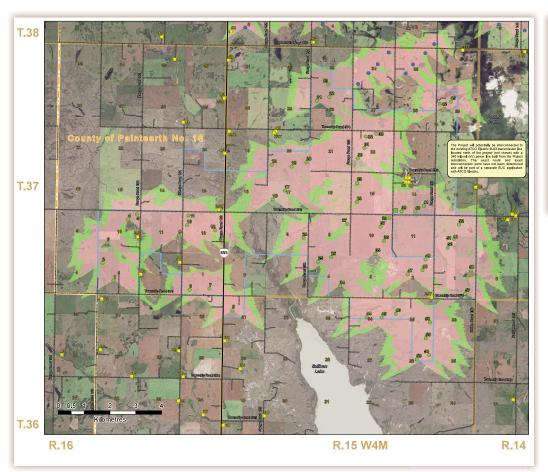
NOTE: The wind turbine used in this analysis is a Senvion 3.4M140 on a 110 m tower





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55 TURBINE **SHADOW FLICKER MAP**



Expected shadow flicker for an average year (between 8 hours and 15 hours per year)

Expected shadow flicker for an average year (greater than 15 hours per year)

Project Boundary

Approximate Turbine Location

Proposed Project Substation and

Proposed Posic Substation and

Proposed Na Building

Existing Turbines (Halkirk Wind Project)

Minor Highway

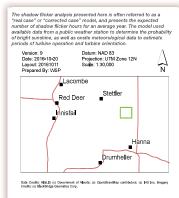
Paved Road

Other Road

Residence

Municipal District and County Boundary

Township Lines and Section Numbers



 Flickering effect caused by shadows cast from rotating turbine blades

- Computer models determine the days and times during the year that specific buildings may experience shadow flicker
- Shadow flicker can be blocked by obstructions such as trees, but we have not assumed any reduction in shadow flicker from potential obstructions

NOTE:

The wind turbine used in this analysis is a Senvion 3.4M140 on a 110 m tower



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OTHER TECHNICAL STUDIES

WIND RESOURCE ASSESSMENT

• Acquired over three years of wind data from 2011 - 2014

GEOTECHNICAL ASSESSMENT

Information used to design foundations

INTERCONNECTION ASSESSMENT

· Confirmed ability to connect to the grid

OTHER SETBACKS

- Includes noise, shadow flicker, environmental and infrastructure setbacks described in Alberta Utilities Commission (AUC) Rule 007
- The design must also meet the county setbacks which include:
 - Highways
 - Municipal Road Allowances
 - Existing Homes
 - Abandoned Oil Wells
 - Oil or Gas Wells
 - Pipelines
 - Access Roads
- Proposed turbine locations were selected after consideration of these various technical and stakeholder considerations
- · Locations will be confirmed after stakeholder feedback







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TURBINE LAYOUT VISUAL SIMULATIONS





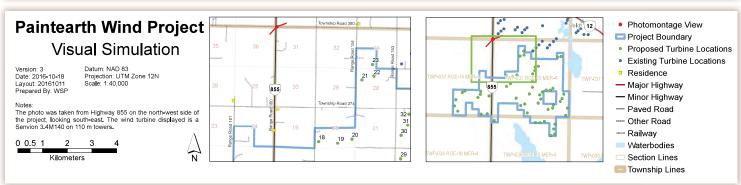


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TURBINE LAYOUT VISUAL SIMULATIONS





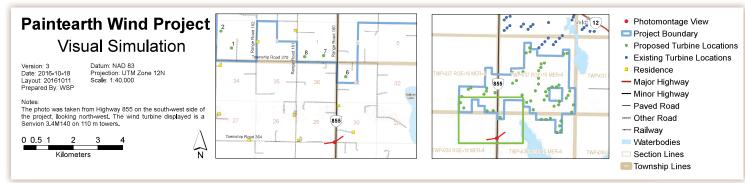


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TURBINE LAYOUT VISUAL SIMULATIONS







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TURBINE LAYOUT VISUAL SIMULATIONS







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REGULATORY APPROVAL PROCESS















Alberta Utilities Commission

Alberta Environment and Parks

Alberta Culture & Tourism

NAV Canada

Transport Canada

Alberta Transportation

County of Paintearth



ENVIRONMENTAL CONSIDERATIONS

The Project design considers land use, wildlife and vegetation. The actual footprint of each turbine on the land is small.

Field studies were started in early 2016 and continue today. The majority of our environmental studies will be completed by November 2016. Those studies include:









- Land Use Assessments
- Wetland Assessments
- Bird Migration Studies (Spring and Fall)
- Breeding Bird Studies
- Raptor Studies and Nest Surveys
- Bat Studies
- Historical Resource Assessments



We are talking to
Alberta Environment
and Parks (AEP)
to understand any
potential concerns.
Please ask a
representative if
you are interested
in further details.

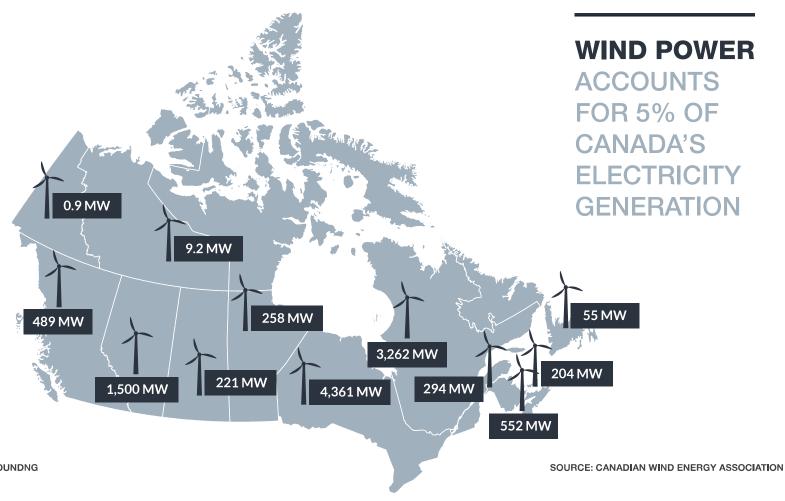




WIND POWER IN CANADA

CANADA'S
CURRENT
INSTALLED
CAPACITY:

11,205 MW



* AS OF DECEMBER 2015 MAY NOT SUM TO TOTAL DUE TO ROUNDING



STAKEHOLDER PRINCIPLES

- All stakeholders including landowners, municipalities, special interest groups and First Nations, have the right to express their views and seek information from us.
- We will engage in a consultation process with stakeholders to assess suggestions and commendations.
- We will endeavour to provide responses to stakeholder inquiries in a timely and transparent manner.
- When required, we will work with landowners and stakeholders to design projects in a way that reduces the influence on existing land uses, e.g. coordination with agricultural uses.
- We will fully comply with the municipalities' applicable land use bylaws.
- We will review all guidelines set out by Alberta Environment and Parks (AEP) in an effort to protect the local environment.

- We will comply with all directives or decisions set forth by the Alberta Utilities Commission (AUC), in an effort to preserve orderly development in Alberta.
- We will comply with all Alberta Electric System Operator (AESO) requirements to ensure the safe and reliable operation of the local transmission system.

